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according to the detection result is issued to notify the keyboard controller 19 of the closed state (C1).

When the keyboard controller 19 receives the message from the opening and closing sensor 20, a message corresponding to the received message is issued from the keyboard controller 19, and the issued message is supplied to the application 18 via the USB host controller 15, the USB driver 16, and the operating system 17 (C2).

The application 18 starts predetermined software 21 incorporated in the apparatus main unit 2 on the basis of the received message. Incidentally, the predetermined software 21 in the above description is for example software for starting input screens 22 and 23 or the like displayable on the display screen 6 as shown in FIG. 11 and FIG. 12.

The input screen 22 is a screen referred to as a so-called software keyboard having a plurality of operating buttons 22a, 22a, . . . Various processes such as a character inputting process and the like can be performed by tapping the buttons 22a, 22a, . . . with a finger or a special input pen.

The input screen 23 has a plurality of input frame areas 23a, 23a, . . . Characters and the like can be input by handwriting with a special input pen or the like in the input frame areas 23a, 23a,

By enabling the starting of the above-described input ²⁵ screens **22** and **23** when the keyboard **3** is in the closed state, as described above, functions necessary for operation can be secured for a user even when the keyboard **3** cannot be used, so that usability of the information processing apparatus **1** can be improved.

A fourth process example will be described (see FIG. 13).

When the opening and closing sensor 20 detects the opened state of the keyboard 3, a message indicating the opened state according to the detection result is issued to notify the keyboard controller 19 of the opened state (D1).

When the keyboard controller 19 receives the message from the opening and closing sensor 20, a request message to enable use of the keyboard 3 which message corresponds to the received message is issued from the keyboard controller 40 19, and the issued message is supplied to the USB host controller 15 (D2).

When the message is supplied to the USB host controller 15, the low power consumption mode of the keyboard 3 is cancelled, and the keyboard 3 is set in a usable state.

At the same time, when the keyboard controller 19 receives the message from the opening and closing sensor 20, a message corresponding to the received message is issued from the keyboard controller 19, and the issued message is supplied to the application 18 via the USB host controller 15, the USB 50 driver 16, and the operating system 17 (D3).

On the basis of the message supplied to the application 18, the application 18 issues a message to enable starting of software and the like used as the keyboard 3 is used.

By enabling use of the keyboard 3 when the keyboard 3 is 55 brought into the opened state as described above, excellent operability of the information processing apparatus 1 can be ensured.

Incidentally, the following process may be performed when the opened state of the keyboard 3 is detected.

For example, it is possible to perform a process of disabling operation or the like of functions that are also provided to the keyboard 3 among the functions provided to the apparatus main unit 2 when the keyboard 3 is opened. Specifically, there are a process of disabling operation of the left button 7b, the right button 7c, the enter button 7f, the cursor key 7g, the pointing device 7b, and the like, and a process of disabling

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starting of the input screens 22 and 23 or the like and limiting power to means for performing the functions of the input screens 22 and 23 or the like.

By thus disabling the operation or the like of the functions that are also provided to the keyboard 3 among the functions provided to the apparatus main unit 2 and limiting the power, unnecessary power consumption is prevented, and therefore power saving can be achieved. This is particularly effective when the information processing apparatus 1 is driven by a battery.

As another process, a process of setting a utility for making various settings on the keyboard 3 in an executable state can be performed.

By thus performing a process of setting a utility for making various settings on the keyboard 3 in an executable state, functions necessary only when the keyboard 3 is usable are secured, and therefore usability of the information processing apparatus 1 can be improved.

As described above, the information processing apparatus 1 detects the closed or opened state of the keyboard 3, and controls the operation of the apparatus main unit 2 or the keyboard 3 according to a result of the detection. Therefore, appropriate operation according to a state of use of the keyboard 3 can be performed, and usability of the information processing apparatus 1 can be improved.

The specific shapes and structures of the parts illustrated in the foregoing best mode each represent a mere example of embodiment in carrying out the present invention, and are not to be construed as restrictive of the technical scope of the present invention.

It should be understood by those skilled in the art that various modifications, combinations, sub-combinations and alterations may occur depending on design requirements and other factors insofar as they are within the scope of the appended claims or the equivalents thereof.

What is claimed is:

- 1. An information processing apparatus comprising:
- a keyboard; and
- a touchpanel selectably communicable with said keyboard including
 - a sensor that detects when said keyboard is not in a communicable state with said touchpanel, and
 - a processor that is configured to display a software keyboard on said touchpanel when said sensor detects that said keyboard is not in the communicable state, wherein
 - said software keyboard having keys arranged in a OWERTY format.
- 2. The information processing apparatus of claim 1, wherein
 - said keyboard is detachably connectable to said touchpanel, and wherein
 - said sensor detects when said keyboard is not connected to said touchpanel.
- 3. The information processing apparatus of claim 1, wherein
 - when said sensor detects that said keyboard is in said communicable state, said processor ceases the software keyboard from being displayed on said touchpanel.
 - 4. An information processing apparatus comprising:
 - a connection sensor that detects a connection to a physical keyboard; and
 - a touchpanel including
 - a display, and

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